

SEQUENCE LISTING

<110> Takatsoji, Hiroshi Nakagawa, Hitoshi

Director General of National Institute of Agrobiological Resources, Ministry of Agriculture, Forestry and Fisheries

<120> Method for Shortening Internode of Inflorescence by Introducing Gene for Petunia Transcription Factor PetSPL2

<130> 085761-000400US

<140> US 09/156,580

<141> 1998-09-18

<150> JP 10-224852

<151> 1998-08-07

<160> 18

<170> PatentIn Ver. 2.0

<210> 1

<211> 997

<212> DNA

<213> Petunia hybrida var. Mitchell

<220>

<221> CDS

<222> (190)..(810)

<223> PetSPL2 transcription factor

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tgcagtaaca ctcctattta accctcacaa aaaaattacc agagggcagc aaaaaatgct 120

tgaacataat tattatactt actattaagc tagatttcct cttgatcttg ctaggtttga 180

ctggagaaa atg gca ggc atg gat aga aac agt ttc aac agt aag tac ttc 231 Met Ala Gly Met Asp Arg Asn Ser Phe Asn Ser Lys Tyr Phe 1 5 10

aaa aac aaa agc atc atg gca aga cag atg gag tac ttg aat aac aac 279 Lys Asn Lys Ser Ile Met Ala Arg Gln Met Glu Tyr Leu Asn Asn Asn 15 20 25 30

aat ggc gac aat aac aac aac aat aat gtt aca agc tca tta cga gat 327 Asn Gly Asp Asn Asn Asn Asn Asn Asn Val Thr Ser Ser Leu Arg Asp 35 40 45

aat tat gga aat gaa gat cat tta ctt ggt gga cta ttc tct tgg cct 375 Asn Tyr Gly Asn Glu Asp His Leu Leu Gly Gly Leu Phe Ser Trp Pro 50 55 60

cca aga tct tat aca tgt agc ttt tgt aaa agg gaa ttt aga tct gct 423
Pro Arg Ser Tyr Thr Cys Ser Phe Cys Lys Arg Glu Phe Arg Ser Ala

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1,023

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														cta Leu		519
														cct Pro 125		567
		_						-	_					aaa Lys		615
														gga Gly		663
														aca Thr		711
	_	_					_	_	_	_				ttg Leu		759
_	_		_	_	_		_				_	_		tcc Ser 205		807
taactatatc taatttttac ggcattaagg tttgtaaatt gagtcgacag cttagtcaa														gtcaaa	867	
acta	actacttatg cactttaata tggcttcttg tgctatattt atttatttta catggctgta														927	
tcta	aggtt	tg d	cattt	taaç	ga tt	tagt	cacct	tgt	caga	atta	aaaq	gaaaa	acg a	aaagt	taaat	987
taaa	aaaa	aaa														997

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<212> PRT

<213> Petunia sp.

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Gly Asn Glu Asp His Leu Leu Gly Gly Leu Phe Ser Trp Pro Pro Arg
50 55 60

Ser Tyr Thr Cys Ser Phe Cys Lys Arg Glu Phe Arg Ser Ala Gln Ala 65 70 75 80

Leu Gly Gly His Met Asn Val His Arg Arg Asp Arg Ala Ile Leu Arg 85 Gln Ser Pro Pro Arg Asp Ile Asn Arg Tyr Ser Leu Leu Asn Leu Asn Leu Glu Pro Asn Pro Asn Phe Tyr Pro Ser His Asn Pro Ser Phe Ser Årg Lys Phe Pro Pro Phe Glu Met Arg Lys Leu Gly Lys Gly Val Val 135 Pro Asn Asn His Leu Lys Ser Ala Arg Gly Arg Phe Gly Val Glu Lys Ile Asp Ser Phe Met Gln Glu Lys Glu Cys Thr Thr Thr Val Ile Lys 170 Lys Ser Glu Phe Leu Arg Leu Asp Leu Gly Ile Gly Leu Ile Ser Glu Ser Lys Glu Asp Leu Asp Leu Glu Leu Arg Leu Gly Ser Thr 200 <210> 3 <211> 18 <212> DNA <213> Artificial Sequence <223> Description of Artificial Sequence:degenerate primer 1 <220> <221> modified base <222> (6) <223> i <220> <221> modified base <222> (9) <223> i <220> <221> modified_base <222> (12) <223> i <220> <221> modified base

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So

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Leu Gln Gln Ser Pro Ser Ser Ser Ser Thr Pro
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Gln Ser Pro Pro Arg Asp Ile Asn Arg
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Lys Gln Lys Gln His Gln Arg Gln Gln Lys Pro

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Glu Ile Ser Thr Asp Asn Leu Asn Ile Asp Gln
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Ile Asn Glu Ser Glu Gln Asp Leu Asp Leu Glu Leu Arg Leu Gly Phe
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Ala
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<400> 15
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Thr

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Thr
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Asp